

Appl. No. 10/757,813
Docket No. 7294C
Amdt. dated August 14, 2007
Reply to Office Action mailed on May 14, 2007
Customer No. 27752

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AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Please amend the paragraph beginning at page 27, lines 22-34, with the following amended paragraph:

An alternate embodiment of a storage element 152 includes a macro-particulate structure 170 comprising a multiplicity of discrete particles 172, nonlimiting examples of which are shown as Figures 5 and 6. The macro particles 172 preferably have a nominal size, preferably between about 1.0 mm in diameter (wherein diameter is the dimension on the longest axis) and about 25.4 mm in diameter, and more preferably between about 2 mm in diameter and about 16 mm in diameter. However, particles as small as 0.5 mm in diameter and smaller, and particles larger than about 25.4 mm in diameter are contemplated. Particles having a nominal size of about 1.0 mm in diameter or greater are those which are generally retained on the surface of a U.S. Standard No. 18 mesh sieve screen. Particles having a nominal size of less than about 25.4 mm in diameter are those which generally pass through a U.S. Standard 25.4 mm sieve screen. Particles having a nominal size of 16 mm in diameter or greater are those which are generally retained on the surface of a U.S. Standard No. 16 mm sieve screen. The nominal particle size is measured prior to incorporating the particles into a storage element 152 for testing or use. Particles having a nominal size of 8 mm in diameter or greater are those which are generally retained on the surface of a U.S. Standard 8 mm sieve screen.

Please amend the paragraph beginning at page 28, line 31, and ending at page 29, line 7, with the following amended paragraph:

The macro-particulate structure 170 preferably includes a continuous interstitial void space 174 that is defined by the space between the particles 172. By varying the size and/or shape of the particles 172, the interstitial void space 174 can be controlled. The particles may be of any known shape, including spheres, oblate spheroids, rectangular and polygonal solids, and the like. Table III shows the void fractions of particles having particular alternative shapes and nominal sizes. Other suitable shapes and void fractions

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are described in Perry's Chemical Engineering Handbook, 6th ed., McGraw-Hill, 1984, at p. 18-20.

Packing Type	TABLE III	
	Nominal Size (mm)	Void Fraction
	in diameter	
Berl saddles	6	0.60
	13	0.62
	6	0.75
Intalox saddles	13	0.78
Pall rings	16	0.87-0.92
Raschig rings	6	0.62
	13	0.64
	19	0.72